AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (PREVIOUSLY PRESENTED): A method for producing a fertilizer, comprising the step of mixing a granular fertilizer with a ferment comprising active bacteria in a fermentation medium to obtain a fertilizer, said ferment being used at a rate of at most 3 liters of ferment per ton of fertilizer, and wherein said ferment is obtained from a fermentation stopped before bacteria get into a dormant stage and have a lag time upon re-hydration.

Claim 2 (ORIGINAL): The method of claim 1, wherein the ferment is used at a rate of 0.5 to 2.0 liter of ferment per ton of granular fertilizer.

Claim 3 (ORIGINAL): The method of claim 1, wherein the ferment is cooled down prior to being mixed with the granular fertilizer.

Claim 4 (ORIGINAL): The method of claim 3, wherein the ferment is cooled down to about 0°C to 12°C.

Claim 5 (ORIGINAL): The method of claim 4, wherein the ferment is cooled down to about 0°C to 5°C.

Claim 6 (ORIGINAL): The method of claim 1, wherein the ferment of active bacteria is obtained by fermentation of said bacteria until the end of the exponential growth phase.

Claim 7 (ORIGINAL): The method of claim 6, wherein fermentation is allowed to proceed until a concentration of bacteria of at least 10^8 cells/ml is obtained.

Claim 8 (ORIGINAL): The method of claim 6, wherein the fermentation medium at the end of the exponential growth phase still contains nutrients for said bacteria.

Claim 9 (ORIGINAL): The method of claim 1, wherein additional fermentation medium is sprayed on the granular fertilizer.

Claim 10 (ORIGINAL): The method of claim 1, wherein the ferment is sprayed onto the granular fertilizer.

Claim 11 (ORIGINAL): The method of claim 1, wherein the bacteria adheres to the granular fertilizer.

Claim 12 (ORIGINAL): The method of claim 1, wherein the ferment is spayed onto a binding agent, said binding agent being thereafter mixed with the granular fertilizer.

Claim 13 (ORIGINAL): The method of claim 12, wherein the binding agent is selected from the group consisting of talc, flour, starch, sugar, and powdered milk.

Claim 14 (ORIGINAL): The method of claim 1, wherein the ferment is subjected to a step of concentration prior to being mixed with the granular fertilizer.

Claim 15 (ORIGINAL): The method of claim 14, wherein the step of concentration comprises at least one of centrifugation, dia-centrifugation, filtration and dia-filtration.

Claim 16 (PREVIOUSLY PRESENTED): A fertilizer produced by the method of claim 1, said fertilizer comprising:

a) an agglomerate chemical substance containing at least one source of at least one of nitrogen, phosphate and potassium for use as granular fertilizer on crops or soils; and

b) bacteria;

wherein said bacteria are being active upon re-hydration without lag time.

Claim 17 (PREVIOUSLY PRESENTED): The fertilizer of claim 16, wherein the bacteria are sprayed onto the agglomerate chemical substance.

Claim 18 (PREVIOUSLY PRESENTED): The fertilizer of claim 16, wherein the bacteria have been dehydrated prior to getting into a latent stage or prior to sporulation.

Claim 19 (PREVIOUSLY PRESENTED): The fertilizer of claim 16, wherein the bacteria are coated onto a binding agent.

Claim 20 (PREVIOUSLY PRESENTED): The fertilizer of claim 19, wherein the binding agent is selected from the group consisting of talc, flour, starch, sugar, and powdered mild.

Claim 21 (PREVIOUSLY PRESENTED): The enhanced fertilizer of claim 16 further comprising nutrients for the bacteria.

Claim 22 (NEW): A method of producing a bacteria and fertilizer composition comprising:

providing a granular fertilizer;

providing a bacterial ferment comprising active bacteria in a fermentation medium in which fermentation of the active bacteria in the ferment is stopped prior to the bacteria entering a dormant stage; and

spraying the bacterial ferment onto the granular fertilizer at a rate of less that 3 liters bacterial ferment per ton of granular fertilizer thereby producing a bacteria and fertilizer composition.

Claim 23 (NEW): A bacteria and fertilizer composition, produced by the process which comprises the steps of:

providing a granular fertilizer;

providing a bacterial ferment comprising active bacteria in a fermentation medium in which fermentation of the active bacteria in the ferment is stopped prior to the bacteria entering a dormant stage; and

spraying the bacterial ferment onto the granular fertilizer at a rate of less that 3 liters bacterial ferment per ton of granular fertilizer thereby producing a bacteria and fertilizer composition.